

ABSTRACT OF THE DISCLOSURE

Alloys for medical, surgical and microsurgical instruments are proposed which comprise 0.01% to 20% by weight of germanium, from 0-25% of shallow hydrogenic and/or non-hydrogenic acceptor dopants in terms of weight ratio in relation to germanium, from 0% up to 20% by weight of one or more of the following compounds such as platinum, gold, palladium, iridium, ruthenium, osmium, rhodium, niobium, tantalum, tungsten, aluminium, silicon, hafnium, yttrium, lanthanum, zirconium with the remainder, up to 100% by weight, constituted by silver and inevitable impurities, wherein instruments from these alloys possess properties such as no capacitive impedance in relation to the electrode-tissue interface; a Far Infrared Radiation (FIR) emitting capacity when energized by any form of energy; sulfurization, corrosion and oxidation resistant and have suitable hardness for their intended use; emit anions and may possess fractal surfaces.